

### **Listing of Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Currently amended) A heat exchanger Heat-exchange element (20) comprising:  
formed by a stack of hollow plates formed by compression of an accordion-shaped  
polymer preform produced by thermo-blowing and having biconvex bellows; (14)  
equipped with two transverse feed manifolds connecting the stack of hollow plates and  
feeding into connecting branches, connected to two connecting pipes (24-26), wherein the stack  
of hollow plates and the two transverse feed manifolds form a single active part without  
assembly or welding, characterized in that:
  - [[ - ]] ~~this element (20) is a single active part [(10)] without assembly or welding;~~
  - [[ - ]] wherein the internal faces of the walls (12a-b or 150a-b / 152a-b / 154a-b) of all the hollow plates (22 or 140-142) are without contact with each other, and ~~the same~~ applies to the external faces of the walls of two contiguous hollow plates are without contact with each other (140-142);<sub>1</sub>
  - [[ - ]] wherein the internal and external faces of the walls of all the hollow plates are at all points separated respectively from one another by narrow, substantially constant, spaces (14 or 144);<sub>1</sub>
  - [[ - ]]
  - [[ - ]] wherein each hollow plate (22) is symmetrical with another hollow plate and both communicate through a side of channel (46) common to all the plates, in order to form a pair of hollow plates constituting an elementary conduit of ~~said the~~ the active part (10);<sub>1</sub>
  - [[ - ]] and wherein each elementary conduit ~~of the~~ single active part (4) has two ~~elongate~~ elongated hollow central portions (23), the ends of which are connected by two

hollow end connectors ~~(24-26)~~[[,]] through which the two transverse feed manifolds  
feeding collectors ~~(44-46)~~ of the heat exchanger element pass.

5. (Currently amended) ~~Elementary heat exchanger (20)~~ A heat exchanger element  
according to claim 4, ~~characterized in that~~ wherein the walls ~~(150a-b / 152a-b / 154a-b)~~ of the  
pairs of hollow plates ~~(140-142)~~ are embossed and globally symmetrical, but their medial  
longitudinal planes are perpendicular to their plane of symmetry.

6. (Currently amended) ~~Elementary heat exchanger (20)~~ A heat exchanger element  
according to claim 4, ~~characterized in that~~ wherein the walls ~~(150a-b / 152a-b / 154a-b)~~ of the of  
the pairs of hollow plates ~~(140-142)~~ are embossed and globally symmetrical, but their median  
longitudinal planes together form dihedrals of 120 to 160° and their end connectors ~~(24-26)~~ have  
been made from invertible surfaces.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

Please add the following new claims:

11. (New) A heat exchanger comprising:

at least one single piece heat exchange element forming a heat exchange surface from a  
accordion-shaped, single piece, compressed preform produced by thermo-blowing and having  
biconvex bellows, wherein the at least one single piece heat exchange element internally forms a  
first confined fluid passage; and

a casing enclosed about the at least one single piece heat exchange element, wherein  
space between the casing and the at least one single piece heat exchange element forms a second  
confined fluid passage.

12. (New) The heat exchanger of claim 11 wherein each single piece heat exchange  
element forms an internal common channel and a plurality of stacked pairs of hollow plates

communicating through the internal common channel, each hollow plate of a pair extending in opposition to the other hollow plate of the pair from the internal common channel.